

Rm 348

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(202) 862-2000

92-195

March 7, 1994

William F. Caton, Acting Secretary  
Federal Communications Commission  
Mass Media Services  
P.O. Box 358195  
Pittsburgh, PA 15251-5195

Re: FCC Form 301 Minor Change Application  
Heart of Citrus, Inc.  
WXOF-FM, Beverly Hills, Florida

Dear Mr. Caton:

Attached with the requisite filing fee is an FCC Form 301 application seeking authorization for WXOF-FM to operate on Channel 292C3 in lieu of Channel 246A. By Report & Order, 8 FCC Rcd. 2197 (released March 29, 1993), WXOF was authorized to upgrade its facilities from a Class A to a C3 facility. Specifically, Channel 292C3 was allocated to Beverly Hills, Florida in lieu of Channel 246A, the channel on which WXOF is currently licensed. The Report & Order also substituted Channel 246C2 in lieu of Channel 292A in Holiday, Florida; Channel 247C2 in lieu of Channel 249A in Micanopy, Florida; and Channel 293C2 in lieu of Channel 292A in Sarasota, Florida.

Dickerson Broadcasting, Inc., the licensee of Station WEAG-FM, Channel 292A in Stark, Florida, filed a Petition for Reconsideration of the Commission's Report & Order. By Memorandum Opinion & Order, 8 FCC Rcd. 8515 (released December 8, 1993) the Commission confirmed its Report & Order and denied the Dickerson Petition for Reconsideration.

Dickerson's Petition for Reconsideration stayed the Commission's Report & Order. Therefore, Heart of Citrus, Inc. is filing its minor change application for a construction permit within 90 days of the Commission's Memorandum Opinion & Order denying the relief requested by Dickerson.

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William F. Caton  
March 7, 1994  
Page Two

Dickerson filed an Application for Review of the Commission's Memorandum Opinion & Order on January 7, 1994. Despite this pending Application for Review, Heart of Citrus, Inc. submits this application and requests that it be processed.

Please direct any questions to the undersigned.

Respectfully submitted,

HEART OF CITRUS, INC.

By   
A. Wray Fitch III  
Its Attorney

cc: Hugh Tolle (For Public File)

[0690/C94awfCatonPA]

WXOF-FM 97.1  
HEART OF CITRUS, INC.  
PHONE 904 746-0080, FAX 904 746-4344  
2480 N ESSEX AVE  
HERNANDO, FL 34442

63-134/631

0924

PAY  
TO THE  
ORDER OF

2/28 1994  
Federal Communications Commission

\$ 565.<sup>00</sup>

Five Hundred Sixty-Five and no/100's DOLLARS



Sun Bank and Trust Company  
Crystal River Office  
P.O. Box 156  
Brooksville, FL 34805-0156

292 C3  
Dkt #92-195

FOR FORM 301 / MINOR CHANGE C/P FILING

*[Signature]*  
*[Signature]*

⑈000924⑈ ⑆063101344⑆0114100026767⑈

Approved by OMB  
3060-0027  
Expires 6/30/95

FCC 301

FEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D.C. 20544

FOR  
FCC  
USE  
ONLY

APPLICATION FOR CONSTRUCTION PERMIT  
FOR COMMERCIAL BROADCAST STATION

FOR COMMISSION USE ONLY

FILE NO.

BPH-940308 I2

Section I - GENERAL INFORMATION

1. APPLICANT NAME

Heart of Citrus, Inc.

MAILING ADDRESS (Line 1) (Maximum 85 characters)

Gammon & Grange, P.C.

MAILING ADDRESS (Line 2) (If required) (Maximum 85 characters)

8280 Greensboro Drive, 7th Floor

CITY McLean	STATE OR COUNTRY (If foreign address) VA	ZIP CODE 22101-3807
TELEPHONE NUMBER (Include area code) (703) 761-5000	CALL LETTERS WXOF-FM	OTHER FCC IDENTIFIER (IF APPLICABLE)

FOR MAILING THIS APPLICATION, SEE INSTRUCTIONS FOR SECTION 1 - GENERAL INFORMATION B.

2. A. Is a fee submitted with this application?

☒ Yes ☐ No

B. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1112) and go to Question 3.

☐ Governmental Entity

☐ Noncommercial educational licensee

C. If Yes, provide the following information:

Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in the "Mass Media Services Fee Filing Guide." Column (B) lists the Fee Multiple applicable for this application. Enter in Column (C) the result obtained from multiplying the value of the Fee Type Code in Column (A) by the number listed in Column (B).

(A) FEE TYPE CODE	(B) FEE MULTIPLE (if required)	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
(1) M P R	0 0 0 1	\$ 565.00	

To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.

(A)	(B)	(C)	FOR FCC USE ONLY
(2)	0 0 0 1	\$	

ADD ALL AMOUNTS SHOWN IN COLUMN C, LINES (1) THROUGH (2), AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE.

TOTAL AMOUNT REMITTED  
WITH THIS APPLICATION  
\$ 565.00

FOR FCC USE ONLY

3. This application is for: (check one box)

☐ AM

☐ FM

☐ TV

(b) Channel No. or Frequency

292

(b) Principal  
Community

City

Beverly Hills

State

FL

Section I - GENERAL INFORMATION (Page 2)

(c) Check one of the following boxes:

- ☐ Application for NEW station
- ☐ MAJOR change in licensed facilities; call sign: \_\_\_\_\_
- ☒ MINOR change in licensed facilities; call sign: \_\_\_\_\_ **WXOF-FM**
- ☐ MAJOR modification of construction permit; call sign: \_\_\_\_\_
- File No. of construction permit: \_\_\_\_\_
- ☐ MINOR modification of construction permit; call sign: \_\_\_\_\_
- File No. of construction permit: \_\_\_\_\_
- ☐ AMENDMENT to pending application; Application file number: \_\_\_\_\_

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

4. Is this application mutually exclusive with a renewal application? ☐ Yes ☒ No

If Yes, state:

Call letters	Community of License	
	City	State

SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees?

☐ Yes ☐ No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 396-A).

SECTION VII - CERTIFICATIONS

1. Has or will the applicant comply with the public notice requirement of 47 C.F.R. Section 73.3580?

☐ Yes ☐ No

2. Has the applicant reasonable assurance, in good faith, that the site or structure proposed in Section V of this form, as the location of its transmitting antenna, will be available to the applicant for the applicant's intended purpose?

☒ Yes ☐ No

Exhibit No.

If No, attach as an Exhibit, a full explanation.

3. If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure.

Name of Person Contacted Mr. Mike DeShazo

Telephone No. (include area code) (904) 628-1619

Person contacted: (check one box below)

☒ Owner ☐ Owner's Agent ☐ Other (specify)

4. By checking Yes, the applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b).

☒ Yes ☐ No

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

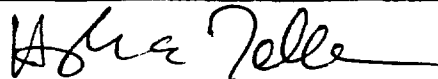
The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant HEART OF CITRUS, INC.	Signature 
Date MARCH 2, 1994	Title SECRETARY-TREASURER/OWNER

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT  
AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of the application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, processing of the application may be delayed or the application may be returned without action pursuant to the Commission's rules. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 72 hours 40 minutes to 347 hours 25 minutes with an average of 213 hours 32 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Information Resources Branch, Room 418, Paperwork Reduction Project, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0027), Washington, D.C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

ENGINEERING EXHIBIT E-4

APPLICATION FOR CONSTRUCTION PERMIT  
(MINOR CHANGE) PURSUANT TO DOCKET 92-195

=====

HEART OF CITRUS, INC.  
WXOF (FM) 106.3 MHz BEVERLY HILLS, FL

HAS: CH. 246A, 5.1 KW ERP @ 108 M HAAT  
REQUESTS: CH. 292C3, 12.0 KW ERP @ 143 M HAAT

FEBRUARY 26, 1994

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**STEPHAN M. KRAMER, P.E. AND ASSOCIATES**

**BROADCAST AND FAA CONSULTING ENGINEERS**

10500 BIGHORN TRAIL, SUITE 100

MCKINNEY, TX 75070

(DALLAS-FORT WORTH AREA)

(214) 529-5123

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AND TERRAIN STUDIES  
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COMPLETE STATION DESIGN



**STEPHAN M. KRAMER, P.E. AND ASSOCIATES**

**BROADCAST AND FAA CONSULTING ENGINEERS**

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Stephan M. Kramer, P.E. and Associates

10500 Bighorn Trail, Suite 100

McKinney, Texas 75070

Phone: (214) 529-5123

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<b>Section V-B - FM BROADCAST ENGINEERING DATA</b>	<b>FOR COMMISSION USE ONLY</b> File No. _____ ASB Referral Date _____ Referred by _____
--	--

Name of Applicant

HEART OF CITRUS, INC.

Call letters (if issued)

WXOF

Is this application being filed in response to a window? ☐ Yes ☒ No

If Yes, specify closing date: \_\_\_\_\_

Purpose of Application: (check appropriate box(es))

- |  |   |
|--|---|
| <input type="checkbox"/> Construct a new (main) facility                       | <input type="checkbox"/> Construct a new auxiliary facility                         |
| <input type="checkbox"/> Modify existing construction permit for main facility | <input type="checkbox"/> Modify existing construction permit for auxiliary facility |
| <input checked="" type="checkbox"/> Modify licensed main facility              | <input type="checkbox"/> Modify licensed auxiliary facility                         |

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Antenna supporting-structure height  | <input checked="" type="checkbox"/> Effective radiated power |
| <input checked="" type="checkbox"/> Antenna height above average terrain | <input checked="" type="checkbox"/> Frequency                |
| <input checked="" type="checkbox"/> Antenna location                     | <input checked="" type="checkbox"/> Class                    |
| <input type="checkbox"/> Main Studio location                            | <input type="checkbox"/> Other (Summarize briefly)           |

Minor change to Channel 292C3

File Number(s) pursuant to Docket 92-195

1. Allocation:

Channel No.	Principal community to be served:			Class (check only one box below)
	City	County	State	
292	Beverly Hills	Citrus	FL	<input type="checkbox"/> A <input type="checkbox"/> B1 <input type="checkbox"/> B <input checked="" type="checkbox"/> C3 <input type="checkbox"/> C2 <input type="checkbox"/> C1 <input type="checkbox"/> C

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

5775 South Rovon Point Road; Citrus County; Lecanto, FL

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude      28      °      46      '      39      "	Longitude      82      °      28      '      05      "
---	--

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☐ Yes ☒ No

If Yes, give call letter(s) or file number(s) or both. \_\_\_\_\_

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any. \_\_\_\_\_

## SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates?

☐ Yes ☒ No

If Yes, list old coordinates.

Latitude	°	'	"	Longitude	°	'	"
----------	---	---	---	-----------	---	---	---

5. Has the FAA been notified of the proposed construction?

☒ Yes ☐ No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available. Approved in Study 93-ASO-1793-OE

Exhibit No.  
FAADate 10-01-93 Office where filed Atlanta, GA

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	<u>none</u>	<u></u>	<u></u>
(b)	<u></u>	<u></u>	<u></u>

7. (a) Elevation: (to the nearest meter)

(1) of site above mean sea level; 20 meters(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 152 meters(3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 172 meters

(b) Height of radiation center: (to the nearest meter) H - Horizontal; V - Vertical

(1) above ground 141 meters (H)141 meters (V)(2) above mean sea level [(aX1) + (bX1)] 161 meters (H)161 meters (V)(3) above average terrain 143 meters (H)143 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No.  
Fig. 5.1

9. Effective Radiated Power:

(a) ERP in the horizontal plane 12.0 kw (H\*) 12.0 kw (V\*)

(b) Is beam tilt proposed?

☐ Yes ☒ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No.

 kw (H\*)  kw (V\*)

\*Polarization

10. Is a directional antenna proposed?

☐ Yes ☒ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field.

Exhibit No.

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)?

☒ Yes ☐ No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.16 mV/m service.

Exhibit No.

12. Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal?

☒ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?

☐ Yes ☒ No

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?

☐ Yes ☒ No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.

Exhibit No.

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.  
Sec. 9.0

(1) Protected and interfering contours, in all directions (360 ), for the proposed operation.

(2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.

(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.

(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.

(5) The official title(s) of the map(s) used in the exhibits(s).

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens band or amateur) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?

☒ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.316(a) and 73.318.)

Exhibit No.  
Sec. 8.0

15. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V (D). The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.  
Fig. 8.1

16. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
Fig. 6.1

TPC published by DMA

- (a) the proposed transmitter location, and the radials along which profile graphs have been prepared;
- (b) the 3.16 mV/m and 1 mV/m predicted contours; and
- (c) the legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

(land only) 1990 Census

Area 4,189 sq. km. Population 211,615

18. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.

- (a) the proposed auxiliary 1 mV/m contour; and
- (b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

19. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313)*

Source of terrain data: *(check only one box below)*

☒ Linearly interpolated 30-second database ☐ 7.5 minute topographic map

(Source: N.G.D.C.)

☐ Other *(briefly summarize)*

## SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 5)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances	
		To the 3.16 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
*			
0	141	22.8	38.6
45	137	22.5	38.1
90	137	22.5	38.1
135	129	21.9	37.1
180	138	22.6	38.2
225	153	23.7	40.1
270	157	23.9	40.5
315	153	23.7	40.1

\*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

## 20. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? ☐ Yes ☒ No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No.  

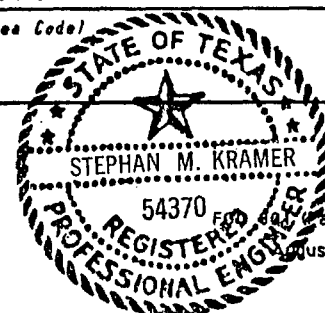
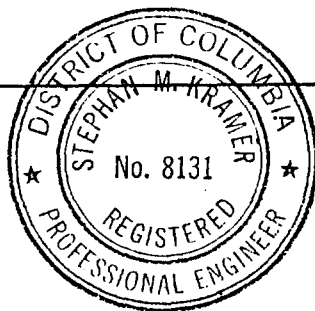
If No, explain briefly why not.

See Section 11.0

## CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed)	Relationship to Applicant (e.g., Consulting Engineer)
Stephan M. Kramer, P.E.	Consulting Engineer
Signature	Address (Include ZIP Code)
<i>Stephan M. Kramer, P.E.</i>	10500 Bighorn Trail, Suite 100 McKinney, TX 75070-6208
Date	Telephone No. (Include Area Code)
February 26, 1994	(214) 529-5123







U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Southern Region

P. O. Box 20636  
Atlanta, Georgia 30320

ACKNOWLEDGEMENT OF NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION

CITY	STATE	LATITUDE/LONGITUDE	MSL	AGL	AMSL
LECANTO	FL	28-46-39.95 082-28-04.35	66	499	565

HEART OF CITRUS, INC  
STEVE KRAMER, P.E. CONSULT ENGINEER  
10500 BIGHORN TRAIL, SUITE 100  
MCKINNEY, TX 75070

AERONAUTICAL STUDY  
No: 93-ASO-1793-OE

Type Structure: ANTENNA TOWER 106.3 MHZ/25,000 WATTS

The Federal Aviation Administration hereby acknowledges receipt of notice dated 10/01/93 concerning the proposed construction or alteration contained herein.

A study has been conducted under the provisions of Part 77 of the Federal Aviation Regulations to determine whether the proposed construction would be an obstruction to air navigation, whether it should be marked and lighted to enhance safety in air navigation, and whether supplemental notice of start and completion of construction is required to permit timely charting and notification to airmen. The findings of that study are as follows:

The proposed construction would not exceed FAA obstruction standards and would not be a hazard to air navigation.  
However, the following applies to the construction proposed:

The structure should be obstruction marked and lighted per FAA Advisory Circular AC 70/7460-1H, 'Obstruction Marking and Lighting'. CHAPTERS: [X]-3 [X]-4 [X]-5 []-6 []-7 []-8 []-9 []-10 []-11 []-12 [X]-13. *Painted Red Lights*

Supplemental notice is required at least 10 days before the start of construction and within five days after construction reaches its greatest height (use the enclosed FAA form).

This determination expires on 06/18/94 unless application is made, (if subject to the licensing authority of the Federal Communications Commission), to the FCC before that date, or it is otherwise extended, revised or terminated.

If the structure is subject to the licensing authority of the FCC, a copy of this acknowledgement will be sent to that Agency.

NOTICE IS REQUIRED ANYTIME THE PROJECT IS ABANDONED OR THE PROPOSAL IS MODIFIED

SIGNED *Robert L. Blaylock* Specialist, Systems Management Branch  
*Armando Castro* (404) 305-5585.  
ISSUED IN: College Park, Georgia ON 12/17/93

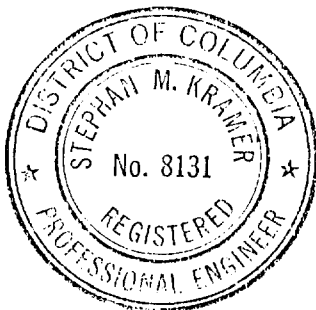
Engineering Affidavit

State of Texas       )  
                              )       ss:  
County of Collin    )

Stephan M. Kramer, being duly sworn, deposes and states that he is a Registered Professional Engineer licensed in Texas and the District of Columbia, that he holds a B.S. Degree in Electrical Engineering from the University of Akron, and that he is a qualified and experienced Communications Consulting Engineer whose expert testimony and works are a matter of record with the Federal Communications Commission having received numerous application grants. He further states Heart of Citrus, Inc. retained the firm of Stephan M. Kramer, P.E. and Associates to prepare the attached Engineering Exhibit E-4 for station WXOF, Beverly Hills, Florida.

The deponent further states that the Exhibit was prepared by him or under his direction and is true of his own knowledge, except as to statements made on information and belief and as to such statements, he believes them to be true.

This declaration is made under penalty of perjury under the laws of the United States.



*Stephan M. Kramer* 02-26-74  
\_\_\_\_\_  
Stephan M. Kramer, P.E.  
Texas P.E. # 54370  
District of Columbia P.E. # 8131

## 1.0 General

This Engineering Exhibit E-4 was prepared on behalf of Heart of Citrus, Inc., licensee of station WXOF, Channel ~~292~~<sup>246</sup>A, Beverly Hills, Florida, in support of a minor change application. The instant application requests a class and frequency change to Channel 292C3 pursuant to Docket 92-195. This application proposes a new transmitter location, tower height, antenna height above average terrain, and effective radiated power.

It should be noted the instant application requests processing under Section 73.215 with respect to station WEAG-FM, Channel 292A, Starke, Florida. In an effort to eliminate the pending objection filed by station WEAG-FM (Dickerson Broadcasting) against the channel change at Beverly Hills, Heart of Citrus, Inc. has designed a facility that provides full 6 KW protection to station WEAG-FM.

## 2.0 Certification of Site Availability

This is contained in the legal portion of this application.

## 3.0 Acceptability for Filing

This FCC Form 301 application to change frequency and class for station WXOF is acceptable for filing under the provisions of Section 73.203. The allocation was changed from Channel 246A to Channel 292C3 at Beverly Hills, Florida following the Rule-making proceeding in Docket 92-195. The allocation change was effective May 10, 1993, however, a Petition for Reconsideration was filed by Dickerson

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**BROADCAST AND FAA CONSULTING ENGINEERS**

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3.0 continued.

Broadcasting, licensee of station WEAG-FM, Channel 292A, Starke, Florida. The Commission released a Memorandum Opinion and Order on December 8, 1993 in which the petition was DENIED. An additional objection was in turn filed by Dickerson which is at present pending.

Informal conference with the FM Branch staff revealed this application can be tendered and accepted for filing pending final resolution of the Dickerson objection.

4.0 Waiver Requests

As outlined in Section 9.0 of this Exhibit, we respectfully request a waiver of Section 73.213 if deemed necessary, with regard to the pending upgrade and channel change for station WDLF-FM, Channel 292A, Cross City, Florida.

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**5.0 Proposed Antenna System and ERP**

The proposed tower and nondirectional antenna is shown in Figure 5.1. It is proposed to use a 3 bay Jampro brand circularly polarized antenna side mounted on a guyed tower. All information regarding the site was supplied to this office by the applicant.

The proposed tower structure, located at N.L. 28-46-39, W.L. 82-28-05 will have an overall height above ground of 152 Meters. This corresponds to a height of 172 meters AMSL. The antenna radiation center will be located at 141 meters above ground (161 meters AMSL). The average terrain as determined in Section 6.0 of this Exhibit was at 18 meters AMSL, and therefore the antenna radiation center (for both horizontal and vertical polarization) is located at 143 meters above average terrain.

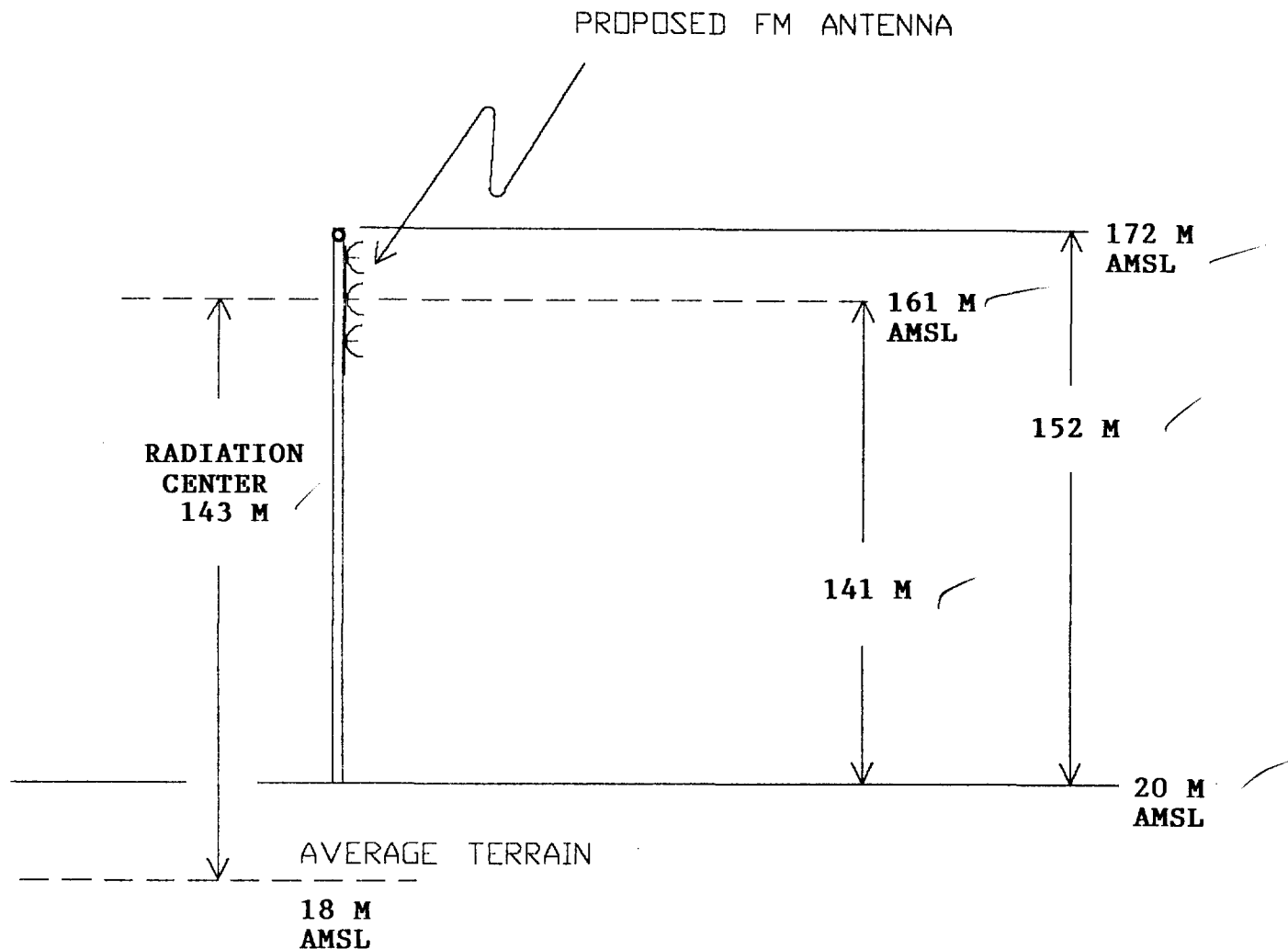
The transmitter will be operated at a power level of 9.8 KW using 2 1/4 inch air dielectric coax to produce an effective radiated power of 12.0 KW horizontal and vertical polarization at 143 meters antenna HAAT.

FIGURE 5.1  
VERTICAL PLAN VIEW  
PROPOSED CLASS C3 FM ANTENNA SYSTEM  
=====

HEART OF CITRUS, INC.  
WXOF (FM) 106.3 MHz BEVERLY HILLS, FL

N.L. 28-46-39  
W.L. 82-28-05  
NOT TO SCALE

MARKING AND LIGHTING  
TO FAA REQUIREMENTS



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**6.0 Predicted Service Contours**

The predicted service contours for the proposed WXOF Class C3 facility are tabulated in paragraph 19 of FCC Form 301, Section V-B, and are depicted in Figure 6.1.

The average elevation for each terrain profile radial over the 3 to 16 kilometer segment was extracted from linearly interpolated 30-second N.G.D.C. digital terrain data base. The data base meets all FCC standards. This terrain and antenna HAAT data was derived in accordance with Sections 73.312 and 73.313. The height above average terrain was computed for the proposed antenna radiation center, and used as the basis to predict the distance to all contours. The predictions were based upon the F(50,50) Field Strength Graph in Section 73.333, Figure 1. Likewise, the F(50,10) graph was used to determine interference contour distances in the allocation study.

The Beverly Hills incorporated limits shown in Figure 6.1 were determined from information supplied by the U.S. Census data base.

ALL CONTOURS PLOTTED  
PURSUANT TO THE LIMITATIONS  
OUTLINED IN SECTION 73.311

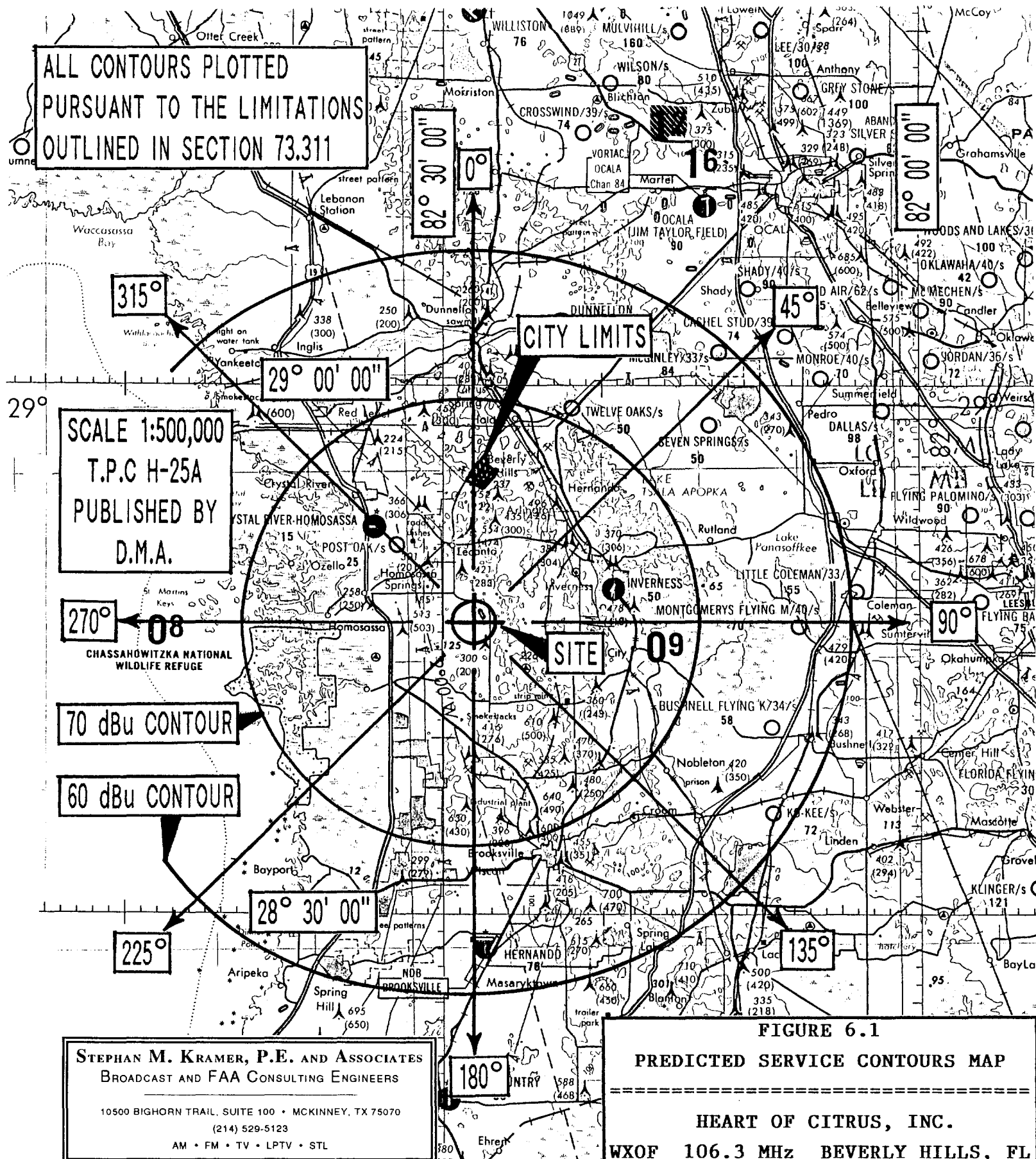


FIGURE 6.1

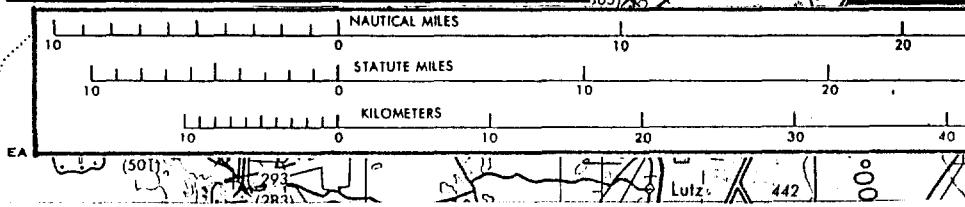
PREDICTED SERVICE CONTOURS MAP

HEART OF CITRUS, INC.

WXOF 106.3 MHz BEVERLY HILLS, FL

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**7.0 Proposed Service Area and Population Data**

The total population served from the proposed WXOF (FM) Class C3 facility was determined from the 1990 Census data by first projecting the proposed 1.00 mV/m (60 dBu) contour from the antenna site. The population from each of the encompassed areas (partially and fully) on the minor civil division map was summed to yield approximately 211,615 persons. Uniform distributions were assumed in all areas.

The total land area within the 1.00 mV/m contour was measured using a polar planimeter, and was determined to be 4,189 square kilometers.

## 8.0 Proposed Transmitter Location

The proposed Heart of Citrus, Inc. Class C3 transmitter site is located in a rural residential area near Lecanto, Florida. This location is within Citrus County, and has a specific street address of 5775 South Raven Point Road. Application was made and approval obtained from the FAA under aeronautical study 93-ASO-1793-OE. A copy of the FAA No Air Hazard determination is a part of this exhibit. The geographical coordinates of the proposed facility are N.L. 28-46-39, W.L. 82-28-05 (using NAD 27.) There were no airports within 8 kilometers of the site, and no AM stations within 3 kilometers. All information regarding the site was furnished by the applicant.

Figure 8.1 depicts the transmitter site on a full scale U.S.G.S. 7.5 minute topographic map. An original map (Lecanto) is included with the signed original copy of this exhibit.

The proposed site is in a rural residential area such that "blanket" and/or intermodulation interference is NOT expected. It does not appear that any interference or intermodulation product (reciever induced or otherwise) from the proposed WXOF operation will occur, however, Heart of Citrus, Inc. does assume full responsibility to correct any problems that develop with the use of traps, filters, etc. in accordance with the limitations pursuant to Section 73.318.

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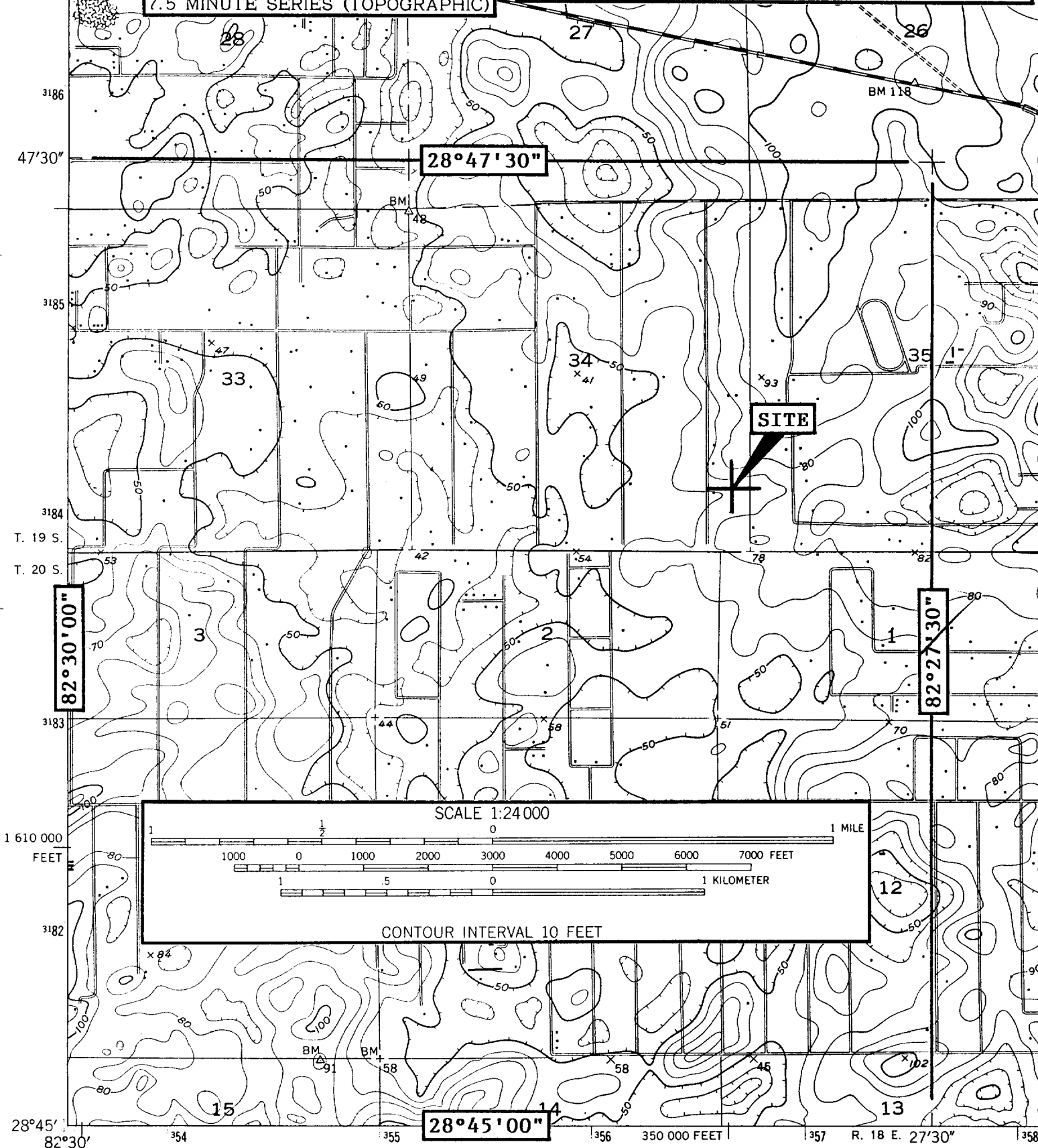
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AM • FM • TV • LPTV • STL

LECANTO QUADRANGLE  
FLORIDA-CITRUS CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)

FIGURE 8.1

TOPOGRAPHIC MAP SECTION  
DEPICTING PROPOSED TOWER SITE

HEART OF CITRUS, INC.  
WXOF (FM) 106.3 MHz BEVERLY HILLS, FL



## 9.0 Allocation Considerations

Following adoption of rulemaking Report and Order and Memorandum Opinion and Order in Docket 92-195, the Commission changed the assignment for Station WXOF from Channel 246A to 292C3 at Beverly Hills, Florida in Section 73.202(b).

An allocation study was performed to examine mileage separations between the proposed Heart of Citrus, Inc. FM facility under Section 73.215, and any applicable existing or proposed station or allocation. All calculations were completed pursuant to Sections 73.207 and 73.208. Table 9.1 presents the analysis results.

It was determined that the proposed WXOF facility maintains adequate mileage separation to all other facilities requiring consideration except as noted in Section 4.0 of this Exhibit for station WDLF-FM, Channel 292A, Cross City, Florida. Station WDLF-FM was granted an upgrade to Channel 295C1, and based upon Commission records, has not completed this upgrade as of this writing. Station WDLF-FM has a pending construction permit application BPH-891129IB. The Commission granted the allocation for Channel 292C3 at Beverly Hills with this 29.3 kilometer short-spacing, and we therefore request a waiver of Section 73.213 with regard to this facility if deemed necessary (the Channel 292C3 allocation at Beverly Hills is entitled to processing under Section 73.213.)

It is proposed to provide protection to Station WEAG-FM, Channel 292A, Starke, Florida as a full 6 KW Class A facility. Pursuant to Section 73.215, the WEAG-FM site was used with an ERP of 6 KW and an HAAT of 100 M. Table 9.2 presents the proposed WXOF service and interference contours, and Table 9.3 lists the WEAG-FM contours. In both Tables, the 40 DBU contour is F(50,10). As shown

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Table 9.1

## FM Allocation Analysis - Ch. 292C3

=====

Heart of Citrus, Inc.

WXOF 106.3 MHz Beverly Hills, FL

FM Study for: WXOF DESHAZO SITE	FCC Database Date: 1/94	28-46-39
Location: BEVERLY HILLS, FL	Channel Class: C3	82-28-05
Call City, State	Chan Class Freq kW Latitude Dist.	Required
Status Proponent	File Number HAAT Longitude Azm.	Clear (km)
-----		
WDFLM CROSS CITY, FL	292 A 106.3 3.00	29-36-35 112.7 142
LIC WOMEN IN FLORIDA BROA	BLH-871223KD 56	83-08-03 325.1 -29.3 SHORT
	Use of 73.215 for short spacing requires: 119	-6.3 SHORT
*To Channel 295C1 per D87-455		
WEASFM STARKE, FL	292 A 106.3 1.35	29-55-50 132.6 142
LIC DICKERSON BROADCASTIN	BLH-871229KE 151	82-06-16 15.4 -9.4 SHORT
	Use of 73.215 for short spacing requires: 119	+13.6 CLOSE
WXXL LEEsburg, FL	294 C1 106.7 100.	28-33-31 88.8 76
LIC J.J. TAYLOR COMPANIES	BLH-910430KB 251	81-35-38 105.6 +12.8 CLOSE
*To amend to Tavares, FL per D92-252		
ALLOD TAVARES, FL	294 C1 106.7	28-33-31 88.8 76
VAC	Docket-92-252 0	81-35-38 105.6 +12.8 CLOSE
Site Restricted-Effective 6-7-93-Reserved for WXXL per D92-252		
WOCL DELAND, FL	290 C 105.9 100.	28-55-16 113.2 96
LIC MID-FLORIDA RADIO, IN	BLH-870721KC 482	81-19-09 81.6 +17.2 CLEAR
WSRZFM SARASOTA, FL	292 A 106.3	27-20-12 159.8 142
DEL PASCO PINELLAS BROADC	Docket-87-455 0	82-31-54 182.3 +17.8 CLEAR
Petition for Reconsideration		
WSRZFM SARASOTA, FL	292 A 106.3 3.00	27-20-12 160.0 142
LIC SARASOTS FM, INC.	BLH-5815 79	82-34-25 183.7 +18.0 CLEAR
WSRZFM SARASOTA, FL	292 A 106.3 3.6	27-20-12 160.0 142
APP SARASOTA FM, INC.	BMLH-910506KC 79	82-34-25 183.7 +18.0 CLEAR
WDFLM CROSS CITY, FL	295 C1 106.9 100.+	29-35-39 94.8 76 73.215
APP WOMEN IN FLORIDA BROA	BPH-891129IB 195	82-45-27 342.8 +18.8 CLEAR
From Channel 292A per D87-455-Amended 930330		
NWOJ AVON PARK, FL	292 A 106.3	27-35-48 160.9 142
DEL PASCO PINELLAS BROADC	Docket-87-455 0	81-38-54 144.2 +18.9 CLEAR
Petition for Reconsideration		

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Table 9.1, continued.

## FM Allocation Analysis - Ch. 292C3

=====

### Heart of Citrus, Inc.

WXOF 106.3 MHz Beverly Hills, FL

FM Study for: WXOF DESHAZO SITE	FCC Database Date: 1/94	28-46-39
Location: BEVERLY HILLS, FL	Channel Class: C3	82-28-05
Call City, State	Chan Class Freq kW Latitude Dist.	Required
Status Proponent	File Number HAAT Longitude Azm.	Clear (km)
-----		
WXOJ AVON PARK, FL	292 A 106.3 2.35 27-33-37 165.4	142
LIC HIGHLANDS MEDIA COMPA	BLH-870113KB 113 81-29-36 144.4	+23.4 CLEAR
WXOJ AVON PARK, FL	292 A 106.3 4.6+ 27-33-37 165.4	142 73.215
CF HIGHLANDS MEDIA COMPA	8PH-901224IF 113 81-29-36 144.4	+23.4 CLEAR
WSRZFM SARASOTA, FL	293 C2 106.5 27-30-40 142.4	117
ADD GATOR BROADCASTING, C	RM-7091 0 82-43-00 189.9	+25.4 CLEAR
Site Restricted 26.6 km Northwest		
WSRZFM SARASOTA, FL	293 C2 106.5 27-27-49 146.9	117
ADD SARASOTA FM, INC.	Docket-87-455 0 82-40-01 187.7	+29.9 CLEAR
Petition for Reconsideration		
WXOF BEVERLY HILLS, FL	292 C3 106.3 28-44-09 5.5	153
ADD SFI/GATOR	Docket-92-195 0 82-29-56 213.1	-147.5 SHORT
Use of 73.215 for short spacing requires: 142 -136.5 SHORT		
PRM-Site Restricted 19.9 km South		
ALLOC CROSS CITY, FL	295 C1 106.9 29-24-07 95.0	76
VAC	Docket-87-455 0 83-08-10 316.9	+19.0 CLEAR
Site Restricted-Effective 8-31-89-Rsvd for WDFLFM per D87-455		
ALLOC BRONSON, FL	295 C1 106.9 29-24-07 95.0	76
ADD WOMEN IN FLORIDA BROA	Docket-92-200 0 83-08-10 316.9	+19.0 CLEAR
PRM-Site Restricted 48.2 km West-Change of Community of License		
ALLOC CROSS CITY, FL	295 C1 106.9 29-24-07 95.0	76
DEL WOMEN IN FLORIDA BROA	Docket-92-200 0 83-08-10 316.9	+19.0 CLEAR
PRM-Change of Community License		

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Table 9.2

## Predicted New WXOF Service and Interference Contours

=====

Heart of Citrus, Inc.

WXOF 106.3 MHz Beverly Hills, FL

Site Elevation AMSL: ( 66) feet

Antenna HAAT: 143.0 meters

Antenna Center Above Sea Level: 161.0 meters

----- DISTANCES TO CONTOURS IN KILOMETERS -----

AZM deg	HAAT (m)	ERP (kW)	70 dB (km)	60 dB (km)	50 dB (km)	40 dB (km)	30 dB (km)	20 dB (km)
			50.50	50.50	50.10	50.10	50.10	50.10
0	141	12.00	22.8	38.6	3.9	12.8	57.9	104.9
5	139	12.00	22.7	38.4	3.9	12.8	57.7	104.6
10	136	12.00	22.5	38.0	3.8	12.6	57.2	104.1
15	134	12.00	22.3	37.7	3.8	12.5	56.9	103.8
20	132	12.00	22.2	37.5	3.8	12.4	56.6	103.5
25	131	12.00	22.1	37.3	3.7	12.4	56.5	103.3
30	131	12.00	22.1	37.3	3.7	12.4	56.5	103.3
35	135	12.00	22.4	37.9	3.8	12.6	57.1	104.0
40	136	12.00	22.5	38.0	3.8	12.6	57.2	104.1
45	137	12.00	22.5	38.1	3.8	12.7	57.4	104.3
50	139	12.00	22.7	38.4	3.9	12.8	57.7	104.6
55	139	12.00	22.7	38.4	3.9	12.8	57.7	104.6
60	139	12.00	22.7	38.4	3.9	12.8	57.7	104.6
65	137	12.00	22.5	38.1	3.8	12.7	57.4	104.3
70	137	12.00	22.5	38.1	3.8	12.7	57.4	104.3
75	138	12.00	22.6	38.2	3.8	12.7	57.5	104.4
80	137	12.00	22.5	38.1	3.8	12.7	57.4	104.3
85	138	12.00	22.6	38.2	3.8	12.7	57.5	104.4
90	137	12.00	22.5	38.1	3.8	12.7	57.4	104.3
95	136	12.00	22.5	38.0	3.8	12.6	57.2	104.1
100	137	12.00	22.5	38.1	3.8	12.7	57.4	104.3
105	136	12.00	22.5	38.0	3.8	12.6	57.2	104.1
110	136	12.00	22.5	38.0	3.8	12.6	57.2	104.1
115	134	12.00	22.3	37.7	3.8	12.5	56.9	103.8
120	131	12.00	22.1	37.3	3.7	12.4	56.5	103.3
125	133	12.00	22.2	37.6	3.8	12.5	56.8	103.7
130	131	12.00	22.1	37.3	3.7	12.4	56.5	103.3
135	129	12.00	21.9	37.1	3.7	12.3	56.2	103.0
140	132	12.00	22.2	37.5	3.8	12.4	56.6	103.5
145	134	12.00	22.3	37.7	3.8	12.5	56.9	103.8
150	136	12.00	22.5	38.0	3.8	12.6	57.2	104.1
155	137	12.00	22.5	38.1	3.8	12.7	57.4	104.3
160	139	12.00	22.7	38.4	3.9	12.8	57.7	104.6
165	138	12.00	22.6	38.2	3.8	12.7	57.5	104.4
170	137	12.00	22.5	38.1	3.8	12.7	57.4	104.3
175	137	12.00	22.5	38.1	3.8	12.7	57.4	104.3

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Table 9.2, continued.

## Predicted New WXOF Service and Interference Contours

=====

Heart of Citrus, Inc.

WXOF 106.3 MHz Beverly Hills, FL

Site Elevation AMSL: ( 66) feet

Antenna HAAT: 143.0 meters

Antenna Center Above Sea Level: 161.0 meters

----- DISTANCES TO CONTOURS IN KILOMETERS -----

AZM	HAAT	ERP	70 dB	60 dB	100 dB	80 dB	54 dB	40 dB
deg	(m)	(kW)	(km)	(km)	(km)	(km)	(km)	(km)

			50,50	50,50	50,10	50,10	50,10	50,10
--	--	--	-------	-------	-------	-------	-------	-------

180	138	12.00	22.6	38.2	3.8	12.7	57.5	104.4
185	140	12.00	22.7	38.5	3.9	12.8	57.8	104.7
190	141	12.00	22.8	38.6	3.9	12.8	57.9	104.9
195	143	12.00	23.0	38.9	3.9	12.9	58.2	105.2
200	143	12.00	23.0	38.9	3.9	12.9	58.2	105.2
205	145	12.00	23.1	39.1	3.9	13.0	58.5	105.5
210	146	12.00	23.2	39.2	3.9	13.1	58.7	105.6
215	148	12.00	23.3	39.5	4.0	13.2	58.9	105.9
220	151	12.00	23.5	39.8	4.0	13.3	59.4	106.4
225	153	12.00	23.7	40.1	4.0	13.4	59.6	106.6
230	153	12.00	23.7	40.1	4.0	13.4	59.6	106.6
235	153	12.00	23.7	40.1	4.0	13.4	59.6	106.6
240	153	12.00	23.7	40.1	4.0	13.4	59.6	106.6
245	154	12.00	23.7	40.2	4.0	13.5	59.8	106.8
250	155	12.00	23.8	40.3	4.1	13.5	59.9	106.9
255	157	12.00	23.9	40.5	4.1	13.6	60.2	107.2
260	157	12.00	23.9	40.5	4.1	13.6	60.2	107.2
265	157	12.00	23.9	40.5	4.1	13.6	60.2	107.2
270	157	12.00	23.9	40.5	4.1	13.6	60.2	107.2
275	157	12.00	23.9	40.5	4.1	13.6	60.2	107.2
280	157	12.00	23.9	40.5	4.1	13.6	60.2	107.2
285	157	12.00	23.9	40.5	4.1	13.6	60.2	107.2
290	157	12.00	23.9	40.5	4.1	13.6	60.2	107.2
295	156	12.00	23.9	40.4	4.1	13.5	60.1	107.1
300	155	12.00	23.8	40.3	4.1	13.5	59.9	106.9
305	154	12.00	23.7	40.2	4.0	13.5	59.8	106.8
310	153	12.00	23.7	40.1	4.0	13.4	59.6	106.6
315	153	12.00	23.7	40.1	4.0	13.4	59.6	106.6
320	151	12.00	23.5	39.8	4.0	13.3	59.4	106.4
325	148	12.00	23.3	39.5	4.0	13.2	58.9	105.9
330	146	12.00	23.2	39.2	3.9	13.1	58.7	105.6
335	145	12.00	23.1	39.1	3.9	13.0	58.5	105.5
340	144	12.00	23.0	39.0	3.9	13.0	58.4	105.3
345	142	12.00	22.9	38.7	3.9	12.9	58.1	105.0
350	142	12.00	22.9	38.7	3.9	12.9	58.1	105.0
355	143	12.00	23.0	38.9	3.9	12.9	58.2	105.2



**STEPHAN M. KRAMER, P.E. AND ASSOCIATES**  
**BROADCAST AND FAA CONSULTING ENGINEERS**  
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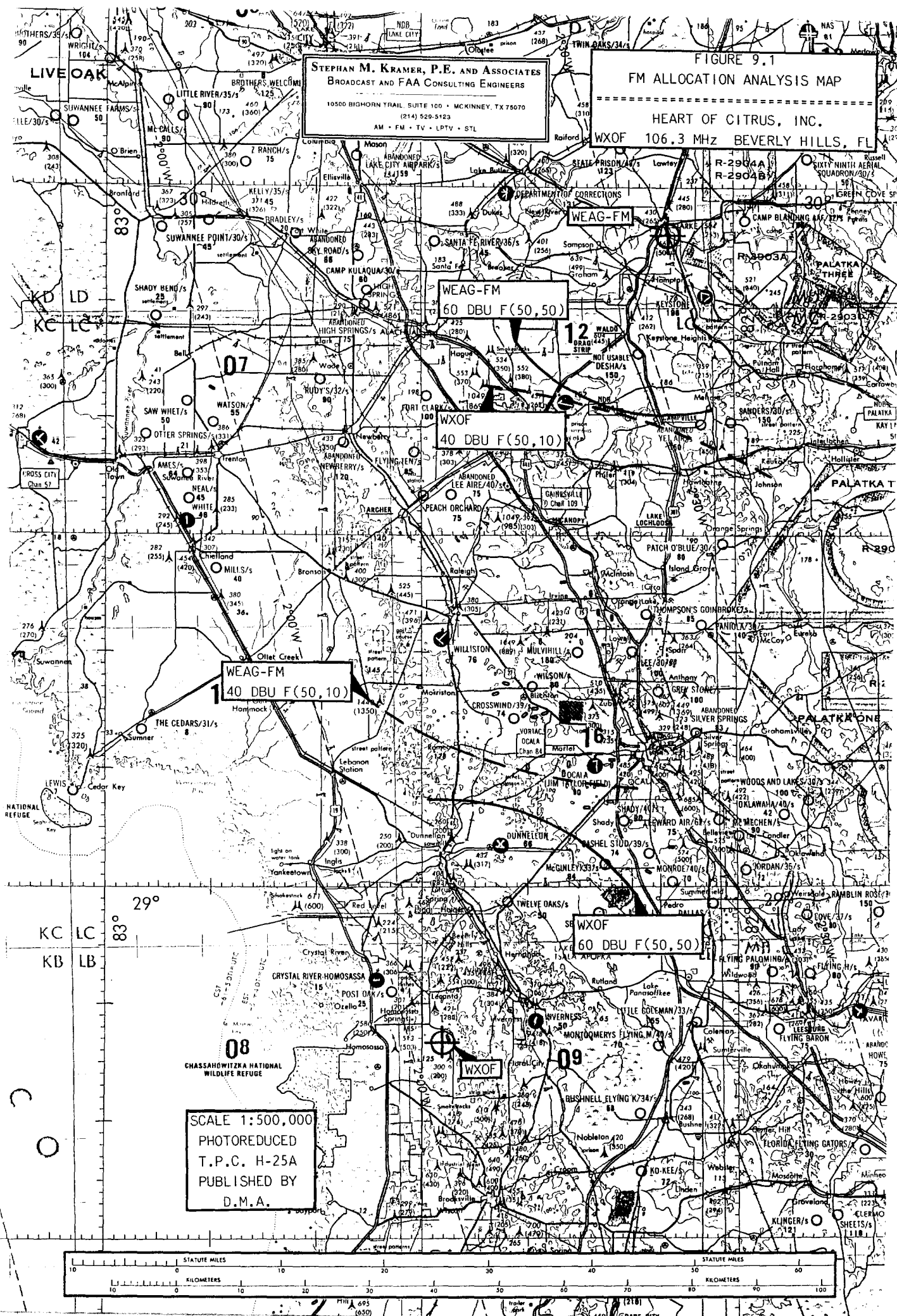
Table 9.3  
 Predicted WEAG-FM 6 KW Service and  
 Interference Contours

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Heart of Citrus, Inc.  
 WXOF 106.3 MHz Beverly Hills, FL  
 ANTENNA HAAT: 100.0 METERS  
 ANTENNA CENTER ABOVE SEA LEVEL: 145.0 METERS

----- DISTANCES TO CONTOURS IN KILOMETERS -----

AZM DEG	HAAT MTRS	ERP (KW)	70 DB (KM)	60 DB (KM)	40 DB (KM)
100	91	6.0000	15.3	27.0	85.1
105	93	6.0000	15.5	27.3	85.4
110	93	6.0000	15.5	27.3	85.4
115	89	6.0000	15.2	26.7	84.7
120	87	6.0000	15.0	26.4	84.3
125	91	6.0000	15.3	27.0	85.1
130	96	6.0000	15.8	27.7	85.9
135	97	6.0000	15.9	27.9	86.1
140	96	6.0000	15.8	27.7	85.9
145	97	6.0000	15.9	27.9	86.1
150	99	6.0000	16.0	28.1	86.4
155	99	6.0000	16.0	28.1	86.4
160	99	6.0000	16.0	28.1	86.4
165	99	6.0000	16.0	28.1	86.4
170	100	6.0000	16.1	28.3	86.6
175	100	6.0000	16.1	28.3	86.6
180	100	6.0000	16.1	28.3	86.6
185	100	6.0000	16.1	28.3	86.6
190	100	6.0000	16.1	28.3	86.6
195	103	6.0000	16.4	28.7	87.1
200	103	6.0000	16.4	28.7	87.1
205	103	6.0000	16.4	28.7	87.1
210	103	6.0000	16.4	28.7	87.1
215	104	6.0000	16.5	28.8	87.3
220	104	6.0000	16.5	28.8	87.3
225	105	6.0000	16.6	28.9	87.5
230	103	6.0000	16.4	28.7	87.1
235	103	6.0000	16.4	28.7	87.1
240	102	6.0000	16.3	28.5	86.9
245	103	6.0000	16.4	28.7	87.1
250	104	6.0000	16.5	28.8	87.3
255	104	6.0000	16.5	28.8	87.3
260	106	6.0000	16.6	29.0	87.6
265	105	6.0000	16.6	28.9	87.5
270	105	6.0000	16.6	28.9	87.5
275	105	6.0000	16.6	28.9	87.5
280	105	6.0000	16.6	28.9	87.5



9.0 continued.

in Figure 9.1, full interference protection is provided to Station WEAG-FM as a 6 KW facility.

#### 10.0 Proposed Studio Location

On file. There is no change in studio or remote control location at this time.

STEPHAN M. KRAMER, P.E. AND ASSOCIATES

BROADCAST AND FAA CONSULTING ENGINEERS

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11.0 Environmental Statement and  
Radiation Considerations

A grant of the proposed Heart of Citrus, Inc. FM facility is NOT considered a major environmental action pursuant to Section 1.1307 as specified by the applicant, and therefore an Environmental Assessment (EA) is categorically excluded for the following reasons:

1. The proposed facility is not located within a designated wilderness area;
2. The proposed facility is not located in a designated wildlife preserve;
3. The proposed facility will not affect any historical area;
4. The proposed facility is not located within a designated flood plain;
5. The proposed facility will not involve any significant change in surface features of the ground in the vicinity of the tower, and white strobe lights will not be employed;
6. Workers and the general public will NOT be subjected to RF radiation levels in excess of A.N.S.I. standards, C95.1-1982, based on computations by this office.

The proposed facility was examined for compliance with FCC standards regarding radiation hazards to humans (ANSI C95.1-1982). The distance from the 3 bay antenna radiation center to ground level is 141 meters. As shown in Table 11.1, the radiation at ground level from the WXOF 12.0 KW ERP (24 kw combined polarization FM signal on 106.3

Table 11.1  
A.N.S.I. Radiation Calculations  
=====

Heart of Citrus, Inc.  
WXOF 106.3 MHz Beverly Hills, FL

Formula (4) from Section II of OST 65:

$$S = (2.56) (EIRP) / (4) (\pi) (R)^2$$

Where:

S = Highest power density (mW/sq.cm) at ground level

R = Distance from center antenna to ground in cm,

MAX S = 1.0 mW/sq.cm for FM station between 88 and 108 MHz

EIRP = 1.64 times ERP relative to dipole in mW,

(horizontal and vertical added times field factor square.)

Power is calculated at worst case conditions

Station: WXOF CJ SITE with antenna up 141 meters and ERP 12.0 kW

$$S = \frac{(2.56) (1.64) (1000) (24,000) (1.000)^2}{(4) (3.14) (14,400)^2}$$

S = 0.039 mW/sq.cm, 3.9 % of maximum allowed.

11.0 continued.

MHz is 0.039 mW/sq. cm. or 3.9% of the maximum value allowed.

To protect workers engaged in maintenance or repair on the tower, Heart of Citrus, Inc. will cease transmitting until such time as all workers are no longer on the tower. It is therefore concluded that the proposed WXOF facility meets all safety requirements with respect to hazardous radiation at or near the tower base.

Accordingly, this application can be granted consistent with the public interest, to provide an improved FM aural service to the community of Beverly Hills, Florida.